John L

IBM

International Business Machines Corporation

East Fishkill Facility, Route 52
Hopewell Junction, New York 12533
914/897-2121

Attn.: J. M. Hogan
D/92C, B/300, Z/4A1

December 12, 1984

RECEIVED
DEC 17 1984
Emergency Response
and Inspection Branch
Edison, N. J.

New York State Department
of Environmental Conservation
21 South Putt Corners Road
New Paltz, NY 12561

Attn.: J. Sansalone:

Sub. : B/323 GROUNDWATER SUMP INCIDENT

Ref. : Telecommunication with J. M. Hogan of IBM on December 4, 1982

Gentlemen:

During investigations into a hydrogen sulfide odor in the basement of B/323, site personnel sampled accumulated liquids in nearby storm drains, manholes, and sumps. The results of these efforts, summarized in Table I, indicated a problem originating in the B/323 north groundwater sump. The north groundwater sump was designed to collect both high groundwater conditions and storm water from the B/323 loading dock and discharge this to the storm drain system. The storm drain influent to the sump has been blocked since discovery of this incident and the discharge pumps have been tagged out-of-service. Procedures were initiated to pump the sumpwater to tank trucks while flushing the building underdrain system. The flushing operations have been discontinued, as this was felt only to be diluting the material removed. The sump is now being allowed to recharge naturally, and pumping operations will be continued until acceptable concentrations are present in the sumpwater.

The sumpwater is currently being disposed off-site at SCA Chemical Services in Model City, NY. When the concentrations of organics and the volume of sumpwater removed per day are at a level such that no increase in final effluent concentration would be expected (1 ppb $\pm$), we propose to introduce the sumpwater to our industrial wastewater treatment facility. Dependent on the time period required to achieve these conditions, the possibility of on-site treatment prior to discharge to the industrial wastewater treatment facility or surface water may be explored.

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Large deposits of clayey soil were encountered in the construction of B/323. It is felt that this underlying soil will assist in minimizing any migration of contaminants out of the building underdrain system. Eventually, all affected groundwater under the building should flow to the groundwater sumps. Historically, the groundwater monitoring wells in the vicinity of the building have not indicated any contamination.

The source of the organics detected in the groundwater sump is believed to be associated with construction activities in the B/323 basement. It is theorized that material was inadvertently spilled and entered the sump. A program to insure the sump cover is kept on the sump has been initiated to insure limited access.

An audit of the B/323 basement revealed the use of several types of chemicals. These included acetone, isopropyl alcohol, epoxies, paint thinners, etc. which were used for installation of the floor coating and piping.

A representative of the U.S. EPA Region II Response Center toured the area on December 5, 1984. He indicated that the situation was under control and remedial actions were satisfactory.

It is believed the measures outlined in this letter represent a reasonable and effective way of containing affected groundwater and cleaning up the pollutants present, with which you can concur.

Please contact me if you have any questions.

Sincerely,

J. M. Hogan
Manager
Site Chemical/
Environmental Services

jms

c F. N. Rubel, U.S. EPA

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TABLE I
SUMMARY OF ANALYSES (UNITS - MG/L)

Sample Date	Location	H_2S Coliform	Methylene Chloride	CIS-1,2 Di-chloro-ethylene	Freon TF	Acetone	Trichloro-ethylene	Perchloro ethylene	Toluene /NBA	Di-chloro-ethane	Isopropyl Alcohol	Xylene	Fe	Mn
11/16/84	North Groundwater Sump	-	-	<1.0	-	<1.0	-	<1.0	-	-	-	-	0.13	0.75
11/19/84	Storm Drain	-	2.3[a]	<1.0	1.0	-	-	-	-	-	-	-	1.82	4.3
11/20/84	Electric Manhole (CS 1372)	-	<1.0	-	-	<1.0	-	-	<1.0	-	-	-	-	
11/20/84	North Groundwater Sump	-	-	<1.0	-	<1.0	<1.0	-	-	<1.0	<1.0	-	0.2	3.61
11/28/84 -5:30 pm	North Groundwater Sump	-	-	<1.0	-	~50	-	-	-	-	<1.0	-	-	-
11/28/84 10:45 pm	Influent to North Groundwater Sump	-	-	<1.0	-	60.2	-	-	-	-	16.1	-	-	-
11/29/84	North Groundwater Sump	-	-	<1.0	-	61.0	-	-	-	-	11.0	-	-	-
11/30/84	North Groundwater Sump	-	-	<1.0	-	142.4	-	-	-	-	89.3	-	-	-
12/5/84	North Groundwater Sump	25	-	-	-	40	-	-	-	-	15	-	-	-
12/8/84	North Groundwater Sump	-	-	1.0	-	141	<1.0	<1.0	-	-	13	<1.0	-	-
12/11/84	North Groundwater Sump	50	Analyses not yet completed for organics											

[a]Initially identified as methylene chloride, later determined substance was actually acetone.

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